

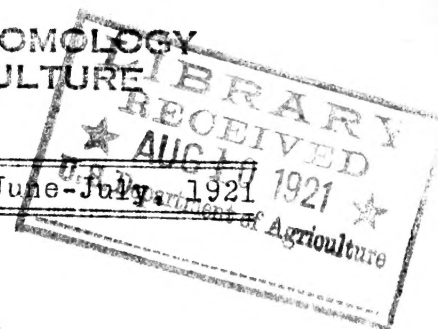
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MONTHLY LETTER OF THE BUREAU OF ENTOMOLOGY
UNITED STATES DEPARTMENT OF AGRICULTURE

Number 86-87

JUNE-JULY 1921



CEREAL AND FORAGE INSECT INVESTIGATIONS

W. R. Walton, Entomologist in Charge

Mr. W. R. Walton returned to Washington June 20 after an extended inspection trip to the southern and southwestern field stations operated by Cereal and Forage Insect Investigations, including an inspection of the region of northern Texas recently attacked by the green bug, and visiting the field laboratories in San Antonio, Tex., and Tempe, Ariz. In Arizona the party was joined by Dr. Oscar C. Bartlett, assistant State entomologist, and portions of the dry farming regions of northern Arizona were visited.

C. K. Fisher, of the Wichita, Kans., force, resigned from the service June 30 for the purpose of entering the States Relations Service in Virginia.

W. B. Turner of the corn borer investigations has been transferred to Cereal and Forage Insect Investigations and detailed for duty at the Sacramento, Calif., station, under C. M. Packard. Mr. Turner's transfer became effective July 1.

E. M. Searls of the Silver Creek (western New York) corn borer force has been transferred to Truck Crop Insect Investigations under Dr. F. H. Chittenden, and detailed for duty at Madison, Wis.

R. H. Van Zwaluwenburg has tendered his resignation from the Federal entomological service to enter commercial entomology in Mexico. Mr. Van Zwaluwenburg's resignation becomes effective July 30.

D. J. Caffrey and L. H. Worthley visited Washington June 28 for the purpose of attending a hearing held by the Federal Horticultural Board with a view to the extension of foreign quarantine No. 41 on account of the European corn borer. After leaving Washington Messrs. Caffrey and Worthley visited the Silver Creek area in western New York.

Thomas R. Chamberlin of the Salt Lake City laboratory recently visited Washington on his way to the European Parasite Laboratory, at Hyeres, southern France. While in France Mr. Chamberlin will study the insect enemies of the alfalfa weevil for the purpose of collecting and shipping to Utah and other infested territory the natural enemies of this serious pest.

W. J. Phillips of the Charlottesville, Va., laboratory, recently visited Washington for the purpose of consultation. Mr. Phillips reports the season as exceedingly unfavorable for the jointworm investigations, the experimental plots at Warrenton, Va., having been abandoned for the season because of lack of material.

John Stuart Pinckney, a graduate of Clemson College, S. C., has been appointed field assistant and assigned to the Wichita, Kans., laboratory for duty on the Hessian fly investigations under J. R. Horton. Mr. Pinckney reported for duty July 22.

TRUCK-CROP INSECT INVESTIGATIONS

F. H. Chittenden, Entomologist in Charge.

D. M. Dowdell, jr., and M. P. Foshee have been appointed to act as district inspectors in connection with new infestations of the Mexican bean beetle.

F. M. Hull has been appointed to assist M. M. High, in charge of the laboratory at Kingsville, Tex., in experimental work on the sweet-potato weevil and truck-crop insects in the Rio Grande Valley.

J. E. Graf, in charge of field work in Mexican bean beetle control at Birmingham, Ala., and B. L. Boyden, in charge of sweet-potato weevil eradication in Florida, visited Washington for the purpose of conferring with Bureau officials regarding the work which they have been conducting during the past few seasons, discussing the results attained, and mapping out their plan of work for the coming season.

E. M. Searls has been transferred from the corn-borer work in Massachusetts to Madison, Wis., to assist J. E. Dudley, jr., in the investigation of the potato leafhopper and the striped cucumber beetle.

J. W. McGlamery has been appointed to the position of scientific assistant in entomology, to assist B. L. Boyden in the sweet-potato weevil eradication work in Florida.

R. H. Turner and W. P. Whitlock have been appointed as field assistants in Mexican bean beetle control, to conduct scouting in the infested territory.

Prof. H. F. Wickham of Iowa State University has received a temporary appointment with this office for the purpose of making a trip to Mexico the latter part of July to secure parasites and other natural enemies of the ladybirds of the genus *Epilachna* for introduction into the region infested by the Mexican bean beetle in the southeastern States. Professor Wickham is well known to entomologists as a collector and has had considerable experience with the Coleoptera of southern Mexico. He will enter Mexico at Vera Cruz and work in southern Mexico and Guatemala during his engagement with the Bureau of Entomology. M. M. High will accompany Professor Wickham on this investigation and will also devote some time to the natural enemies of the Colorado potato beetle and related species of *Leptinotarsa*, many of which inhabit the same regions as *Epilachna*. A look-out will be kept for natural enemies of the sweet-potato weevil. If anything promising is found along this line which could be safely introduced into the United States for the repression of these three pests, Mr. High will be able to continue this work when Professor Wickham is

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recalled to the chair of entomology at Iowa.

The Department through the Federal Horticultural Board announces the release of Alabama from the quarantine against the Mexican bean beetle, effective July 23, 1921. This action has been decided upon on account of recent developments in the scouting campaign conducted against the pest which has shown a much greater distribution that was estimated at the end of last season. At the time the quarantine was promulgated the infested territory was believed to be confined to 13 counties in Alabama, covering an area of about 3,500 square miles, lying in the mineral district in north-central Alabama. Scouting during the present summer shows that the beetle is present in injurious numbers over about 10,000 square miles in the States of Alabama, Georgia, and Tennessee, and is distributed, though as yet thinly, over an additional 20,000 square miles in these States and in Kentucky and South Carolina. At the present time, the infestation covers 30 counties in Alabama, 26 in Georgia, 1 county in Kentucky, 1 in South Carolina, and 27 counties in Tennessee. Scouting is being carried on at the present time to determine whether the infestation reported from Thomasville, Ga., is an isolated one or part of a large general infestation adjoining the southern boundary of the present known infested area. At present, the insect is known to be within 16 miles of Mississippi, 10 miles of Florida, 3 miles of North Carolina, and 23 miles of Virginia. It is evident from the present distribution of the insect east of the Mississippi River either that the original spread is much greater than was originally believed possible or that the original introduction took place at a date several years earlier than the reports would indicate. In either case, the continuation of the quarantine seems unjustifiable in the light of present information, as an economic loss through its enforcement would more than counterbalance the gain.

FRUIT INSECT INVESTIGATIONS

A. L. Quaintance, Entomologist in Charge

H. F. Willard, in charge of the Bureau's laboratory at Honolulu, Hawaii, who has been spending some time in the States, has now returned to Honolulu to resume his studies of the Mediterranean and other fruit flies.

John B. Gill, who has been assisting in connection with peach investigations at Fort Valley, Ga., has now returned to his permanent headquarters at Brownwood, Tex., where he will resume his pecan insect investigations.

A. T. Speare is now at Orlando, Fla., to continue his investigations of fungous parasites of citrus fruit insects.

Prof. J. G. Sanders, Dr. T. J. Headlee, and Dr. A. L. Quaintance visited the Japanese beetle laboratory at Riverton, N. J., on July 19, and in company with C. H. Hadley and other members of the scientific force went over in some detail the status of the control and other operations under way. The Japanese beetle was found to be more abundant than usual, and a correspondingly larger amount of injury to foliage of various kinds was in evidence.

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BEE CULTURE

E.F. Phillips, Apiculturist in Charge

James I. Hambleton, formerly of the University of Wisconsin, has been appointed apicultural assistant beginning July 1. He will be located in Washington, D. C.

E. L. Sechrist will attend the beekeepers' meeting during Farmers' Week at the Virginia Polytechnic Institute, Blacksburg, Va., August 3.

Dr. E. F. Phillips will attend the beekeepers' meeting during Farmers' Week at the Connecticut Agricultural College, Storrs, Conn., August 3 and 4, and the annual field meeting of the Eastern Massachusetts Beekeepers' Association at Dedham, Mass., August 6.

The third beekeepers' Chautauqua to be held in Wisconsin will begin at Chippewa Falls, August 15. Dr. Phillips will attend.

On September 30 the Bureau of Entomology will discontinue its cooperation in the extension work in beekeeping in South Carolina and Iowa because of shortage of funds. The work will be continued in Wisconsin, New York, Mississippi, and North Carolina.

LIBRARY

Mabel Colcord, Librarian

New Books (June)

Anderson, Ernest The South African locust poison. 20 p.
Pretoria, The Government printing and stationery office, 1920.
(Union of South Africa. Dept. Agr. Science Bul. 15.)

Delessert, Adolphe Souvenirs d'un voyage dans l'Inde execute de
1834 a 1839. 2 pts., plates, map. Paris, Fortin, Masson et Cie,
etc. 1843.

Forel, A. H. Le monde social des fourmis du globe compare a celui
de l'homme. Geneve, Librairie Kundig, editeur, 1921.
Pt. 1. Genese, formes, anatomie, classification, geographie
fossiles. 192 p.

Grouvelle, A. H. Memoires entomologiques - etudes sur les coleopteres.
2 v. Paris, 1916-1917.

Henderson, I. F., and Henderson, W. D. A dictionary of scientific
terms, pronunciation, derivation, and definition of terms in
biology, botany, zoology, anatomy, cytology, embryology, physiology.
354 p. Edinburgh and London, Oliver & Boyd, 1920.

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- Howe, R. Heber, Jr. The distribution of New England Odonata, p. 105-133. Boston, Printed for the (Boston) Society of natural history, May, 1921. (Contribution from the Entomological Laboratory, Bussey Institution, Harvard University No. 186.)
- Hutchinson, C. M. Pebrine in India. p. 177-245. Calcutta, 1920. (India Dept. of Agr. Memoirs. Ent. Ser. v, 1, no. 8, Nov., 1920.)
- Janet, Charles. Recherches sur l'anatomie de la fourmi et essai sur la constitution morphologique de la tete de l'insecte...205 p., illus., 15 pl. Paris, C. Carre & C. Naud, 1900.
Liste des auteurs cites, p. 196-203.
- Jarvis, Edmund, An account of a new moth borer of sugar cane (family Tineidae); together with further notes on the pyralid moth borer of cane (Polyocha sp.) (Queensland - Bureau of Sugar experiment stations, Division of entomology, Bul. 11.)
- Lassalle, C. F. Malaria report. Report on Anopheles survey of the Colony of Trinidad and Tobago. 218 p., maps. Trinidad, Printed at the Government printing office, Port-of-Spain, 1920.
- Lutz, F. E. How to collect and preserve insects. 4th ed. 22 p., illus. New York, 1920. (American museum of natural history. Guide leaflet no. 39.)
- Misra, C. S. "The American blight" or "The woolly aphis" *Eriosoma* (*Schizoneura lanigera*, Hausmann). Agricultural journal of India, v, 15, pt. 6, p. 627-635, pl. XXXVII-XLII, November, 1920.
- Moss, Miles, Sphingidae of Para. Early stages, food plants, habits, etc. (Novitates zoologicae, v. 27, no. 2, p. 333-512, 11 pl. Nov., 1920.)
- Percival, John, Agricultural botany, theoretical and practical 6th ed., illus. London, 1921. "Revised throughout." - Preface.
- Peterson, Alvah, Some soil fumigation experiments with paradichlorobenzene for the control of the peach-tree borer, *Sanninoidea exitiosa* Say. (Soil Science, v. 11, no. 4, p. 305-318, pl. 1, April, 1921.)
- Root, F. M. Experiments on the carriage of intestinal protozoa of man by flies. (American Journal of hygiene, v, 1, no. 2, p. 131-152, pl. VI-VIII, March, 1921.)
- Sanderson, E. D. Insect pests of farm, garden, and orchard. Ed. 2, rev. and enl. by Leonard Marion Peairs. 707 p., illus. New York, John Wiley and Sons, Inc.; London, Chapman & Hall, Ltd., 1921.
Bibliography, p. 689-691.

Seifert, Otto, Die tierischen parasiten des menschen, die von ihnen hervorgerufenen erkrankungen und ihre heilung. II teil. 506 p. Leipzig, Verlag von Curt. Kambitsch, 1920. Klinik und therapie der tierischen parasiten des mensche.

Thorp, Sir T. E. A dictionary of applied chemistry, by Sir Edward Thorp... assisted by eminent contributors... Rev. and enl. ed. v. 1. London, New York, etc. 1921.

Woodeson, Austin, "Termites" or "white ants" and their attacks on buildings. 29 p., (6) pl. (Colombo, Ceylon), Printed by the Colombo apothecaries Co., Ltd., 1921, References, p. 28-29.

New Books (July)

Bureau of bio-technology, Leeds. Bulletin No. 2. January 1, 1921. Contents: The destruction of stored grain by *Trogoderma khapera* Arrow, by F. W. Mason, p. 27-38, pl. 3; An investigation of the causes of run in pelts in the sweating process, by P. Hampshire, p. 39-49, pl. 4-5.

Cattell, J. McK. ed. American men of science, ed. by James McKeen Cattell and Dean R. Brimhall. 3d ed. 808 p. Garrison, N. Y., The Science press, 1921.

Decoppet, M. Le hanneton. (*Melolontha vulgaris*.) 130 p., plates, maps. Lausanne, Librairie Payot et Cie., 1920. Index bibliographique, p. 92-96.

Guercio, Giacomo del. Note ed osservazioni di entomologia agraria. 282 p., illus., pl. Firenze, Istituto agricole coloniale italiana, 1918.

Hill, G. F. The white ant pest in northern Australia... Published under authority of the executive committee of the advisory council of science and industry. 26 p., illus., plates. Melbourne, A. J. Mullett, government printer, 1921. (Australia, Institute of science and industry. Bulletin no. 21.)

Ito, Hirowo, On the metamorphosis of the alimentary canal of *Bombyx mori* L. (Tokyo Imperial sericultural college. Bulletin v. 2, no. 1, December, 1920.)

Lutz, F. E. Field book of insects. Ed. 2, rev. and enl. 562 p., illus., plates. N. Y., G. P. Putnam's Sons; London, The Knickerbocker press, 1921.

Schenkling, S. Scarabaeidae: Cetoninae. 431 p. Berlin, W. Junk, 1921. (Coleopterorum catalogus... W. Junk, ed. S. Schenkling, pt. 72.)

- Schimpfer, A. F. W. Plant geography upon a physiological basis. English translation by W. R. Fisher, rev. and enl. by Percy Groom and I. B. Balfour. 839 p., illus., maps. Oxford, At the Clarendon press, 1903.
- Storey, G. ...The present situation with regard to the control of the pink boll worm in Egypt... 16 p., illus. Cairo, Government press, 1921. Egypt. Dept. of agriculture. Technical and scientific service. Bulletin no. 16. Entomological section.
- Wiele, Johannes. Biologie und bekämpfung der deutschen schabe (Phyllodromia germanica L.). 140 p., illus. Berlin, Verlagsbuchhandlungen Paul Parey, 1920. (Monographien zur angewandten entomologie. Beihefte zur Zeitschrift für angewandte entomologie, hrsg. von K. Escherich, no. 5 (Beihefte 1 zu Band VII).;

